



INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Attorney Docket Number	36792/CAG/B600
Application Number	09/643,920
Filing Date	August 23, 2000
Applicant(s)	Onur Tackin et al.
Group Art Unit	To be assigned 2666
Examiner Name	To be assigned DVONZI, F

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
TD	SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS, Automatic level control devices, 06/99, pages 1-52, Recommendation G.169, International Telecommunication Union

EXAMINER SIGNATURE	<i>Onur Tackin</i>	DATE CONSIDERED	<i>9/21/04</i>
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FORM PTO-1449

INFORMATION DISCLOSURE

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Attorney Docket Number	36792/CAG/B600
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Group Art Unit	2645 2666
Examiner Name	To be assigned

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AUG 01 2001

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
(H)	6,141,341	10/2000	Jones et al.	370	352	—

FOREIGN PATENT DOCUMENTS

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						YES	NO

OTHER DOCUMENTS

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Substitute for PTO-1449A/B



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Applicant(s)	Onur Tackin et al.
Group Art Unit	2645-2666
Examiner Name	To be Assigned-DUONG, P

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	CITE NO. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
TD		4,285,060	08-18-1981	Cobb et al.
		4,617,676	10-14-1986	Jayant et al.
		5,119,322	06-02-1992	Stroobach
		5,329,587	07-12-1994	Morgan et al.
		5,339,384	08-16-1994	Chen
		5,353,346	10-04-1994	Cox et al. <b>Technology Center 2600</b>
		5,388,127	02-07-1995	Scarpa
		5,452,289	09-19-1995	Sharma et al.
		5,454,015	09-26-1995	Olafsson
		5,471,470	11-28-1995	Sharma et al.
		5,535,271	07-09-1996	Jangi et al.
		5,577,041	11-19-1996	Sharma et al.
		5,598,468	01-28-1997	Ammicht et al.
		5,600,649	02-04-1997	Sharma et al.
		5,694,517	12-02-1997	Sugino et al.
		5,764,627	06-09-1998	Sharma et al.
		5,790,532	08-04-1998	Sharma et al.
		5,790,641	08-04-1998	Chan et al.
		5,793,498	08-11-1998	Scholl et al.
		5,818,929	10-06-1998	Yaguchi
TD		5,852,630	12-22-1998	Langberg et al.

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	<i>ml Dmy</i>		9/7/14

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FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B	AUG 30 2002 C58 PATENT & TRADEMARK OFFICE	Attorney Docket Number	36792/PAN/B600
<b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/643,920
		Filing Date	August 23, 2000
		Applicant(s)	Onur Tackin et al.
		Group Art Unit	2645 2666
		Examiner Name	To be Assigned Duong, P

U.S. PATENT DOCUMENTS				
EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
TD		5,859,671	01-12-1999	Kim <span style="float: right;">RECEIVED</span>
		5,970,441	10-19-1999	Mekuria
		5,987,061	11-16-1999	Chen <span style="float: right;">SEP 04 2002</span>
		6,023,470	02-08-2000	Lee et al. <span style="float: right;">Technology Center 2600</span>
		6,028,679	02-22-2000	Murphy
		6,125,177	09-26-2000	Whittaker
		6,151,636	11-21-2000	Schuster et al.
		6,233,226 B1	05-15-2001	Gringeri et al.
TD		6,259,677 B1	07-10-2001	Jain

FOREIGN PATENT DOCUMENTS				
EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		WO 97/26753 A1	07-24-1997	I-Link Worldwide, Inc.
		WO 97/28628 A1	08-07-1997	Labs of Advanced Technologies International Corporation

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2000  
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### OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
no		R. W. LUCKY, <i>QAM Receiver I. General Description of Complete Receiver Block Diagram and Details of the Symbol Clock Recovery-and-Other-Front-End-Subsystems</i> , Applications of Communications Theory, Chapter 13, pages 127-135, Bellcore
Copies		R. W. LUCKY, <i>QAM Receiver II. The Passband Adaptive Equalizer and Carrier Recovery System</i> , Applications of Communications Theory, Chapter 14, Pages 137-151, Bellcore
Copies		EDWARD A. LEE et al., <i>Adaptive Equalization</i> , Digital Communication, Chapter 9, pages 371-402
		EDWARD A. LEE et al., <i>Timing Recovery</i> , Digital Communication, Chapter 15, Pages 560-582
Provided		WILLIAM WEBB et al., <i>Basic Equaliser Techniques</i> , Modern Quadrature Amplitude Modulation, Principles and Applications for Fixed and Wireless Communications, IEEE Press, New York, Chapter 7, Pages 197-211
		MIKE GRAY, <i>FAX Technology Tutorial and Testing Issues</i> , Agilent Technologies, © 2000, pages 1-20
Not		<i>FAX Over IP Opportunities and Options</i> , Natural MicroSystems, 7 sheets
On		EIA/TIA-464-B, Requirements for Private Branch Exchange (PBX) Switching Equipment, "6 Signaling Requirements, 6.1 Network Signaling - Analog," pages 140-146
Not		MAN MOHAN SONDHI et al., <i>Silencing Echoes on the Telephone Network</i> , Proceedings of the IEEE, © August 1980, Vol. 68, No. 8, pages 948-963
Not		JOHN G. PROAKIS, <i>Digital Signaling Over a Channel With Intersymbol Interference</i> , Digital Communications, ISBN 0-07-05097-1, © 1983, Pages 357-381, McGraw-Hill, Inc.
Not		BELL COMMUNICATIONS RESEARCH, <i>Dual-Tone Multifrequency Receiver Generic Requirements for End-to-End Signaling Over Tandem-Switched Voice Links</i> , © March 1987, Technical Reference TR-TSY-000181 Issue 1, 11 sheets
		BELL COMMUNICATIONS RESEARCH, <i>Impulse Noise Tape No. 201</i> , Technical Reference TR-TSY-000762 Issue 1, © July 1987, 4 sheets

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Examiner Name	To be Assigned

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### OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		BELL COMMUNICATIONS RESEARCH, <i>Digit-Simulation Test Tape</i> , Technical Reference TR-TSY-000763 Issue 1, © July 1987, 6 sheets
Wat		JOHN A.C. BINGHAM, <i>Timing Recovery, The Theory and Practice of Modem Design</i> , © 1988, Chapter 7, pages 189-236, John Wiley & Sons, Inc.
		JOHN A.C. BINGHAM, <i>Linear Adaptive Equalizers, The Theory and Practice of Modem Design</i> , © 1988, Chapter 8, pages 237-252, John Wiley & Sons, Inc.
Conc		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>General Aspects of Digital Transmission Systems, Terminal Equipments, Pulse Code Modulation (PCM) of Voice Frequencies</i> , ITU-T Recommendation, G. 711; © ITU 1988, 1993; 8 sheets
11		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>Transmission Systems and Media, Apparatus Associated With Long-Distance Telephone Circuits and Other Terminal Equipments, Echo Suppressors</i> , ITU-T Recommendation, G. 164; © ITU 1988, 1993; 36 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>General Aspects of Digital Transmission Systems, Terminal Equipments, 7 kHz Audio -Coding Within 64 Kbit/s</i> , ITU Recommendation; G. 722; © ITU 1988, 1993; 76 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>General Recommendations On Telephone Switching and Signalling, International Automatic and Semi-Automatic Working, Technical Features of Push-Button Telephone Sets</i> , ITU-T Recommendation; Q. 23; © ITU 1988, 1993, 4 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>General Recommendations on Telephone Switching and Signalling, International Automatic and Semi-Automatic Working, Multifrequency Push-button Signal Reception</i> , ITU-T Recommendation, Q. 24, © ITU 1988, 1993, 7 sheets

EXAMINER SIGNATURE	Initials	DATE CONSIDERED	9/3/4

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<p>FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/E <i>AUG 30 2002</i> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (use as many sheets as necessary)</p>	Attorney Docket Number	36792/PAN/B600
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#### OTHER DOCUMENTS

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<i>Kot</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>Data Communication Over the Telephone Network, 300 Bits Per Second Duplex Modem Standardized For Use in The General Switched Telephone Network</i> , ITU-T Recommendation V. 21; © ITU 1988, 1993; 7 sheets
<i>C</i>		INTERNATIONAL TELECOMMUNICATION UNION, <i>Data Communication Over The Telephone Network, 1200 Bits Per Second Duplex Modem Standardized For Use In The General Switched Telephone Network And On Point-To-Point 2-Wire Leased Telephone-Type Circuits</i> , ITU-T Recommendation V.22, © ITU 1988, 1993; 16 sheets
<i>O</i> <i>C.</i>		INTERNATIONAL TELECOMMUNICATION UNION, <i>Data Communication Over The Telephone Network, 2400 Bits Per Second Duplex Modem Using The Frequency Division Technique Standardized For Use On The General Switched Telephone Network And On Point-To-Point 2-Wire Leased Telephone-Type Circuits</i> , ITU-T Recommendation V.22 bis, © 1988, 1993; 18 sheets
<i>h</i> <i>C.</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>Data Communication Over the Telephone Network, 4800/2400 Bits Per Second Modem Standardized For Use in The General Switched Telephone Network</i> , ITU-T Recommendation, V.27 ter, © ITU 1988, 1993; 15 sheets
<i>d</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>Data Communication Over the Telephone Network, 9600 Bits Per Second Modem Standardized For Use On Point-To-Point 4-Wire Leased Telephone-Type Circuits</i> , ITU-T Recommendation, V. 29, © ITU 1988, 1993, 17 sheets
		FUYUN LING et al., <i>Convergence and Steady-State Behavior of a Phase-Splitting Fractionally Spaced Equalizer</i> , IEEE Transactions on Communications, © April 4, 1990, Vol. 38, No. 4, pages 418-425, IEEE
		PAUL FISCHER, <i>State Machines In C</i> , The C Users Journal, December 1990, pages 119-122

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<i>hot</i>		INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, Data Communication Over the Telephone Network, <u>Data Compression Procedures For Data Circuit Terminating Equipment (DCE) Using Error Correction Procedures</u> , ITU-T Recommendation, V.42 bis; © ITU 1990; 29 sheets
<i>Confidential</i>		INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, <u>General Aspects of Digital Transmission Systems; Terminal Equipments, 40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM)</u> , ITU-T Recommendation, G.726; © 1990; 59 sheets
<i>11</i>		INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, <u>General Aspects of Digital Transmission Systems; Terminal Equipments, 5, 4, 3- And 2-bits Sample Embedded Adaptive Differential Pulse Code Modulation (ADPCM)</u> ; Recommendation G. 727; © ITU 1990; 57 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, CCITT- The International Telegraph and Telephone Consultative Committee, <u>Data Communication Over the Telephone Network, A 2-Wire Modem for Facsimile Applications With Rates up to 14 400 bit/s</u> , Recommendation V. 17; © ITU 1991; 13 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, <u>Data Communication Over The Telephone Network, A Duplex Modem Operating At Data Signalling Rates Of Up To 14 400 bit/s For Use On The General Switched Telephone Network And On Leased Point-To-Point 2-Wire Telephone-Type Circuits</u> , ITU-T Recommendation V. 32 bis; © ITU 1991, 24 sheets
		DENNIS R. MORGAN et al., AT & T Bell Laboratories; <u>A Multi-Tone Pseudo-Cascade Filtered-X LMS Adaptive Notch Filter</u> , Proceeding of the IEEE International Conference in Acoustic Speech and Signal Processing, ICASSP 91, Vol. 3 D, May 1991, Toronto, Ontario, Canada, pages 2093-2096

EXAMINER SIGNATURE	<i>Mr. On</i>	DATE CONSIDERED	<i>9/3/04</i>
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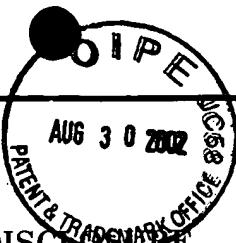
### OTHER DOCUMENTS

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		PANOS E. PAPAMICHALIS, Texas Instruments, Inc., <i>Practical Approaches to Speech Coding</i> , Prentice-Hall, Inc., Englewood Cliffs, New Jersey; 1992, pages 163-167
<i>not</i>		JAMES THI et al., AT & T Bell Laboratories; <i>A Broadband Pseudo-Cascade Active Control System</i> , Proceeding of the IEEE International Conference in Acoustic Speech and Signal Processing; © 1992 IEEE; pp. II-233-II-236
<i>Conc</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU; General Aspects of Digital Transmission Systems; Terminal Equipments, <i>Coding of Speech at 16 kbit/s Using Low-delay Code Excited Linear Prediction</i> , Recommendation G. 728; 09/1992, 65 sheets
		DENNIS R. MORGAN et al., AT & T Bell Laboratories, <i>A Multitone Pseudocascade Filtered-X LMS Adaptive Notch Filter</i> , IEEE Transactions on Signal Processing, Vol. 41, No. 2; © February 1993; pages 946-956
<i>11</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Characteristics of International Telephone Connections and International Telephone Circuits, <i>Echo Cancellers</i> , ITU-T Recommendation G. 165; © ITU 1994; 31 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, Data Communication Over The Telephone Network, <i>A Family Of 2-Wire, Duplex Modems Operating At Data Signalling Rates Of Up To 9600 bit/s For Use On The General Switched Telephone Network And On Leased Telephone-Type Circuits</i> , ITU-T Recommendation V.32; © 1993; 26 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, ERROR-CORRECTING PROCEDURES FOR DCES USING ASYNCHRONOUS-TO-SYNCHRONOUS CONVERSION, ITU-T Recommendation V. 42; © ITU 1993; 78 sheets
		GARDNER et al.; Qualcomm Inc.; <i>QCELP: A Variable Rate Speech Coder for CDMA Digital Cellular</i> , © 1993 by Kluwer Academic Publishers; Second Printing 1995; 9 sheets

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Substitute for PTO-1449A/B



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Attorney Docket Number 36792/PAN/B600

Application Number 09/643,920

Filing Date August 23, 2000

Applicant(s) Onur Tackin et al.

Group Art Unit 2645

Examiner Name To be Assigned

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OTHER DOCUMENTS

EXAMINER INITIALS	CITE NO. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>Not</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <u>Data Communication Over The Telephone Network, A Modem Operating At Data Signalling Rates Of Up To 28 800 bit/s For Use On The General Switched Telephone Network And On Leased Point-To-Point 2-Wire Telephone-Type Circuits</u> , ITU-T Recommendation V.34; © ITU 1994; 43 sheets
<i>Concurred</i>		INTERNATIONAL TELECOMMUNICATION UNION ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, <u>Coding of Speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction</u> , Annex G: 16 kbit/s Fixed-Point Specification, ITU-T Recommendation G.728 - Annex G; © ITU 1995; 67 sheets
<i>II</i>		IEEE; IEEE Standards for Local and Metropolitan Area Networks: Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications, <u>Media Access Control (MAC) Parameters, Physical Layer, Medium Attachment Units, and Repeater for 100 Mb/s Operation, Type 100BASE-T</u> (Clauses 21-30); © 1995; 408 sheets
		DENNIS R. MORGAN et al., <u>A Delayless Subband Adaptive Filter Architecture</u> , IEEE Transactions on Signal Processing; Vol. 43, No. 8; © August 1995, pages 1819-1830
		Internet Papers: SCHULZRINNE H.; <u>RTP Profile for Audio and Video Conferences with Minimal Control</u> , Network Working Group Request for Comments: 1890; <a href="http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc1890.html">http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc1890.html</a> ; January 1996; 15 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, <u>Dual Rate Speech Coder For Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s</u> ; ITU-T Recommendation G. 723.1; © ITU 1996; 31 sheets

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FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B  <b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Attorney Docket Number	36792/PAN/B600
	Application Number	09/643,920
	Filing Date	August 23, 2000
	Applicant(s)	Onur Tackin et al
	Group Art Unit	2645 2666
	Examiner Name	To be Assigned

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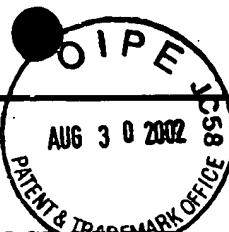
### OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
T		INTERNATIONAL TELECOMMUNICATION UNION ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, <u>Coding of Speech at 8 kbit/s Using Conjugate-Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP)</u> ; ITU-T Recommendation G.729; © ITU 1996; 38 sheets
Not		BELLCORE Bell Communication Research, Generic Requirements GR-506-CORE, <u>LSSGR: Signaling for Analog Interfaces</u> ; (A Module of ESSGR, FR-64); Issue 1; © June 1996; 240 sheets
One		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T- Telecommunication Standardization Sector of ITU, Series T: Terminal Equipments and Protocols for Telematic Services, <u>Procedures for Document Facsimile Transmission in the General Switched Telephone Network</u> , ITU-T Recommendation T. 30; © ITU 1997; 74 sheets
111		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series T: Terminal Equipments and Protocols for Telematic Services, <u>Standardization of Group 3 Facsimile Terminals for Document Transmission</u> , ITU-T Recommendation T. 4; © ITU 1997; 61 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals By Methods Other Than PCM, <u>Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex A: Silence Compression Scheme</u> ; ITU-T Recommendation G.723.1 - Annex A; © ITU 1997; 22 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals by Methods Other Than PCM, <u>Coding of Speech at 8 kbit/s Using Conjugate Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP)</u> , Annex B: A Silence Compression Scheme For G.729 Optimized for Terminals Conforming to Recommendation V.70, ITU-T Recommendation G.729 - Annex B; © ITU 1997; 23 sheets

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Attorney Docket Number 36792/PAN/B600

Application Number 09/643,920

Filing Date August 23, 2000

Applicant(s) Onur Tackin et al.

Group Art Unit 2645 2666

Examiner Name To be Assigned

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## OTHER DOCUMENTS

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<i>Not</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals by Methods Other Than PCM, <i>Coding of Speech at 8 kbit/s Using Conjugate Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP) Annex A: Reduced Complexity 8 kbit/s CS-ACELP Speech Codec</i> , ITU-T Recommendation G.729 - Annex A; © ITU 1997; 15 sheets
<i>Conc. Rele</i>		European Telecommunication Standard, <i>Digital Cellular Telecommunications System; Half Rate Speech; Voice Activity Detector (VAD) for Half Rate Speech Traffic Channels (GSM 06.42 version 5.0.1)</i> ; Source ETS; TC-GSM; Reference DE/SMG-II/0642Q; ©1997; 21 sheets
<i>111</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T, Telecommunication Standardization Sector of ITU, Series I: Integrated Services Digital Network, Overall Network Aspects and Functions - Protocol Layer Requirements, <i>B-ISDN ATM Adaptation Layer Specification: Type 2 AAL</i> , ITU-T Recommendation I.363.2; © 1998; 47 sheets
		Internet Papers: PERKINS et al.; <i>RTP Payload for Redundant Audio Data</i> ; Network Working Group Request for Comments: 2198; <a href="http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc2198.htm">http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc2198.htm</a> ; September 1997; pages 1-9
		Internet Papers: SCHULZRINNE, "RTP Profile for Audio and Video Conferences with Minimal Control," Internet Engineering Task Force, Internet Draft; <a href="http://hegel.ittc.ukans.edu/topics/internet/internet-drafts/draft-i/draft-ietf-avt-profile-new-C.">http://hegel.ittc.ukans.edu/topics/internet/internet-drafts/draft-i/draft-ietf-avt-profile-new-C.</a> ; November 20, 1997; pages 1-29
		IMTC Voice over IP Forum Technical Committee, "IMTC Voice over IP Forum Service Interoperability Implementation Agreement 1.0"; December 1, 1997, V0IP97-061; pages 1-44
		EDWARD B. MORGAN, Fax Over Packet; Telogy Networks, Inc., Germantown, Maryland; © 1998; pages 1-12

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FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B		Attorney Docket Number	36792/PAN/B600
<b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/643,920
		Filing Date	August 23, 2000
		Applicant(s)	Onur Tackin et al
		Group Art Unit	2645 2666
		Examiner Name	To be Assigned

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### OTHER DOCUMENTS

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<i>not</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series V: Data Communication Over The Telephone Network, <i>A Modem Operating at Data Signalling Rates of up to 33 600 bit/s for Use on the General Switched Telephone Network and on Leased Point-to-Point 2-Wire Telephone-Type Circuits</i> ; ITU-T Recommendation V. 34; © ITU 1998; 78 sheets
<i>Colson</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, <i>SERIES T: TERMINALS FOR TELEMATIC SERVICES, Procedures for Real Time Group 3 Facsimile Communication Over IP Networks</i> , ITU-T Pre-published Recommendation T. 38; © ITU 1998; 32 sheets
<i>11</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series V: Data Communication Over the Telephone Network, <i>Simultaneous Transmission of Data and Other Signals, A Digital Modem and Analogue Modem Pair For Use on the Public Switched Telephone Network (PSTN) at Data Signalling Rates of up to 56 000 bit/s Downstream and up to 33 600 bit/s Upstream</i> , ITU-T Recommendation V. 90; © ITU 1999; 49 sheets
		FRAME RELAY FORUM TECHNICAL COMMITTEE, <i>Voice-over Frame Relay Implementation Agreement</i> ; © 1998; 54 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series I: <i>Integrated Services Digital Network, Overall Network Aspects and Functions - Protocol Layer Requirements, AAL Type 2 Service Specific Convergence Sublayer For Trunking</i> ; ITU-T Recommendation I.366.2; © ITU 1999; 96 sheets
		Internet Papers: SCHULZRINNE et al.; <i>RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals</i> ; Network Working Group Request for Comments: 2833; © The Internet Society 2000; 31 sheets

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Substitute for PTO-1449A/B



## INFORMATION DISCLOSURE

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Attorney Docket Number **36792/PAN/B600**

Application Number **09/643,920**

Filing Date **August 23, 2000**

Applicant(s) **Onur Tackin et al.**

Group Art Unit **2645 2666**

Examiner Name **To be Assigned**

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## OTHER DOCUMENTS

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<i>not</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Systems and Networks, International Telephone Connections and Circuits - Apparatus Associated With Long-Distance Telephone Circuits, <i>Digital Network Echo Cancellers</i> ; ITU-T Recommendation G. 168; © ITU 1997; 95 sheets
<i>Scd</i>		ETSI EN 300 973, GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS, <i>Digital cellular telecommunications system (Phase 2+); Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels</i> ; GSM 06.42 version 8.0.1 Release 1999; © 2000; pages 1-22

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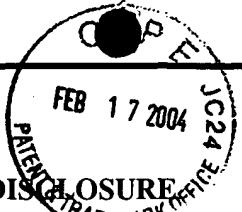
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Attorney Docket Number	36792/RRT/B600
Application Number	09/643,920
Filing Date	August 23, 2000
Applicant(s)	Onur Tackin, et al.
Group Art Unit	3645 2666
Examiner Name	Not yet Assigned <i>Duong, F</i>

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - Kind Code <sup>2</sup> (If Known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>TD</i>		5,491,565	02-13-1996	Naper
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FOREIGN PATENT DOCUMENTS

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